



Briggs Engineering & Testing  
*Division of PK Associates, Inc.*

**Proposal to Provide:**  
**Quality Assurance Construction Inspection**  
**and Materials Testing Services for the:**  
**State of Rhode Island**  
**Solicitation No. 7549212**

Prepared for:  
**The State of Rhode Island Department of Administration**  
**Division of Purchases 2<sup>nd</sup> Floor**  
**One Capitol Hill, Providence, RI 02908-5855**

Attention:  
**Mr. John F. O'Hara II**  
**Chief Buyer**

Respectfully submitted by:  
**Briggs Engineering & Testing**

Submittal Date:  
**February 13<sup>th</sup>, 2015**

**Corporate Headquarters/Lab:**  
**100 Weymouth Street, Unit B1**  
**Rockland, MA 02370**  
**(781) 871-6040**

**Rhode Island Office/Lab:**  
**100 Pound Road**  
**Cumberland, RI 02864**  
**(401) 658-2990**

[www.briggsengineering.com](http://www.briggsengineering.com)

**Proposal for  
Briggs Engineering & Testing  
to supply Quality Assurance Construction Inspection  
and Materials Testing Services for the:**

# **State of Rhode Island Solicitation No. 7549212**

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## Briggs Engineering & Testing

A DIVISION OF PK ASSOCIATES, INC.

The State of Rhode Island Dept. of Admin.

c/o Mr. John F. O'Hara II, Chief Buyer

Division of Purchases, 2<sup>nd</sup> Floor

One Capital Hill, Providence, RI 02908-5855

**RE: Solicitation No. 7549212- Quality Assurance Testing and Inspections for the State of Rhode Island**

13 February 2015

Proposal 09.15.050

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Dear Mr. O'Hara

In response to your solicitation for proposal, it is with great pleasure that I submit the enclosed proposal, bid form and associated documents for your review and consideration.

Briggs E&T has thoroughly enjoyed it's role in the City of Providence PWD's Construction Inspection and Materials Testing program over the past several years and we hope that we can earn the opportunity to provide our services to the State of Rhode Island as well.

As you may know Briggs Engineering and Testing is a multi-disciplined firm, which employs over one hundred very professional people in two offices, Rockland, MA and Cumberland, RI. Briggs staff of professionals consist of a multidisciplinary array of Registered Professional Engineers, Field Inspectors, Field Engineers, Lab Technicians and other technical personnel organized into five divisions defines as:

- 1. Vertical Building Construction QA/QC Inspection and Materials Testing Services.**
- 2. Geotechnical Engineering and Consulting.**
- 3. Building Envelope Services including Performance & Failure Diagnostics, Moisture Protection Consulting and Construction Phase Application Inspection.**
- 4. Non-Destructive & Mechanical Testing Services.**
- 5. Federal, State and/or Municipal Roadway, Bridge, Airport, Railway & Waterworks Construction QA/QC Testing & QC Management.**

Briggs E&T has provided services on thousands of construction projects over it's 55 year history. PK Associates, Inc. d/b/a Briggs Engineering & Testing is a domestic corporation registered in the Commonwealth of Massachusetts which is currently jointly owned by Paul M. Skorohod (President) and Kenneth M. Oliver, (Vice President). It has been under their ownership since 1996. We have offices in Boston, MA, Rockland, MA and Cumberland, RI.



Briggs E&T's relevant laboratory certifications and/or accreditations include:

- 1. Massachusetts Dept. of Public Safety licensed Concrete Testing Lab (No. 012),**
- 2. American Association of State Highway and Transportation Officials (AASHTO)**
- 3. Army Corp of Engineers Accredited Materials Testing Laboratory**
- 4. Northeast Transportation Training & Certification Program Certified Lab (NETTCP)**
- 5. Federal Aviation Administration (FAA) Certified Repair Station (for NDE Services)**
- 6. MADOT Pre-qualified Materials Testing Lab**

These are all validated through 3rd party audits including monitored proficiency tests which are required to maintain these certifications.

We have gone through great effort and expense to meet or exceed the criteria required to obtain and maintain all of our certifications and accreditations because we feel they are essential to assure our clients of the accuracy of the data we generate and the competence of our personnel.

Each department within Briggs E&T has inspection & testing personnel certified as follows who are available to assign as needed:

- Soils/Earthwork:** NETTCP Certified Soil & Aggregate Inspectors  
Certified Engineers in Training (EIT, Mass)  
NICET Certified Level II Soils Inspectors  
NETTCP Certified Drilled Shaft Inspector  
Registered Professional Geotechnical Engineer (P.E.)
- Concrete:** NETTCP Certified Concrete Inspectors (Field, Batch Plant & Lab)  
ACI Certified Grade 1 Field Testing Technicians (ACI CFTT)  
ACI Certified Concrete Construction Special Inspectors (ACI CCI)  
ACI Certified Concrete Lab Testing Technicians Level I & II  
NICET Level II Concrete Inspectors  
FACE Certified Concrete Floor Flatness/Levelness Testing personnel
- Pre-Cast:** PCI Level III Inspectors
- Post-Tensioning:** PT Level I & II
- Structural Steel:** AWS Certified Welding Inspectors  
ICC Certified Structural Steel & Bolting Inspectors  
ASNT Certified Level II & III NDE Inspectors
- Fireproofing:** ICC Certified Spray Applied Fireproofing Special Inspectors
- Masonry:** ICC Certified Masonry Inspectors  
Certified Engineers in Training (EIT, Mass)
- Bituminous:** NETTCP Certified Hot Mix Asphalt Inspectors (Field & Plant)  
NICET Level I Asphalt Inspectors

*The State of Rhode Island Dept. of Admin.  
c/o Mr. John F. O'Hara II, Chief Buyer*

*13 February 2015  
Proposal 09.15.050  
Page 3 of 3*

Additionally, our Building Technology Group which specializes in building envelope application, performance testing & failure diagnostics services is known as one of the best envelope consulting/testing firms in this region.

We have provided our services on some of the largest projects in this region over the past decade including the Boston Convention & Exhibition Center, Gillette Stadium (Home of the New England Patriots) and the Foxwoods/MGM Resort & Casino Expansion. Briggs was selected for all of these projects after each of the respective project managers reviewed our qualifications, interviewed our staff and then toured our facilities.

Thank you for the opportunity to submit our information. Please feel free to call me if you have any questions or concerns.

Very truly yours,  
BRIGGS ENGINEERING & TESTING

A handwritten signature in black ink, appearing to read "Todd F. Livolsi", written over the company name.

Todd F. Livolsi  
Manager-Business Development

# **Briggs Engineering & Testing**

## **Summary of**

### **Accreditations, Certifications and Capabilities**

#### **Massachusetts Department of Public Safety**

Licensed Concrete Testing Laboratory (No. 012)

#### **American Concrete Institute**

All Concrete Testing Personnel for Briggs E&T (field & lab) have been tested and are certified by ACI.

#### **Cement And Concrete Reference Laboratory**

Briggs E&T is actively involved with the United States Department of Commerce, National Institute of Standards And Technology (NIST, formerly National Bureau of Standards), Cement And Concrete Reference Laboratory. Our firm is listed in the thirty-third and thirty-fourth inspection tour publications. You can verify our firms qualifications on the CCRL website.

#### **American Association of State Highway And Transportation Officials (AASHTO)**

Briggs E&T participates in the AASHTO proficiency sample-testing program and is currently AASHTO accredited in the following:

*Quality Systems - accredited since 4/15/2002*

*R18, C1077 (Aggregate), C1077 (Portland Cement Concrete), D3666 (Hot Mix Asphalt), D3740 (Soil)*

*Hot Mix Asphalt - accredited since 10/1/2003*

*T166, T209, T245, T269, D2041, D2726, D3203, D6926, D6927*

*Soil - accredited since 10/1/2003*

*T88, T99, T180, T191, T265, T310, D422, D698, D1140, D1556, D1557, D2216, D2487, D2488, D6938*

*Aggregate - accredited since 4/15/2002*

*C29, C40, C117, C127, C128, C136, C566, C702*

*Portland Cement Concrete - accredited since 4/15/2002*

*C31, C39, C42, C78, C138, C143, C172, C173, C192, C231, C617, C1064, C1231*

*Masonry - accredited since 6/18/2014*

*C511 (Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes)*

*C780 (Annex 6) (Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry)*

*C1019 (Sampling and Testing Grout)*

#### **U.S. Army Corp of Engineers**

Briggs Engineering & Testing laboratory and personnel have been inspected and approved as qualified to perform quality control testing as stipulated by Corps. of Engineers' construction regulations.



**Massachusetts Department of Transportation (MADOT)**

Briggs E&T is a MADOT Pre-Approved Materials Inspection and Testing Laboratory and is specifically pre-qualified for testing Mortar Bars for Alkali-Silica Reactivity per AASHTO T303

**Northeast Transportation Training & Certification Program (NETTCP Lab Cert #105)**

Briggs has NETTCP inspection & testing personnel certified in the following disciplines:

- a. Soils and Aggregate Field Inspector (Soil Compaction Testing)
- b. Soils and Aggregate Lab Technician
- c. Concrete Technician (Batch Plant Inspection)
- d. Concrete Inspector (Field Inspection, Sampling & Testing)
- e. Hot Mix Asphalt Plant Technician
- f. Hot Mix Asphalt Paving Inspector (Field Inspection, Sampling & Testing)
- g. Drilled Shaft Inspector
- h. NETTCP Certified QA Technologist

**America Society for Nondestructive Testing (ASNT TC-1A) Certified Personnel**

Briggs NDT personnel are certified (Level I, II &/or III) to perform various types of Nondestructive testing and inspections including:

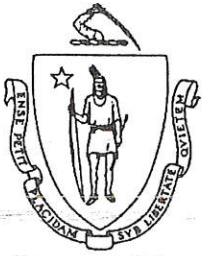
- a. Magnetic Particle
- b. Dye Penetrant
- c. Ultrasonic
- d. Eddy Current
- e. X-ray

**F-Number Floor Flatness & Levelness Testing**

Briggs E&T has personnel who are FACE F-Number Measurement Certified.

**Window/Curtain Wall Air and Water Infiltration and/or Leak Testing**

Briggs is qualified to perform the above testing per AMMA 501.2, ASTM E783 & ASTM E1105 and E1186 in addition to performing Air/Vapor Barrier Adhesion Testing per ASTM D4541.



Deval L. Patrick  
Governor

Andrea J. Cabral  
Secretary

*The Commonwealth of Massachusetts*

*Department of Public Safety*

*Board of Building Regulations and Standards*

*One Ashburton Place, Room 1301*

*Boston, Massachusetts 02108-1618*

*Phone (617) 727-3200 Fax (617) 727-5732*

*TTY (617) 727-0019*

*www.mass.gov/dps*

Thomas G. Gatzunis, P.E.  
Commissioner

Brian Gale  
Chairman

Richard Crowley  
Vice Chairman

Robert Anderson  
Administrator

**CONCRETE TESTING LABORATORY LICENSE  
CALENDAR YEAR 2014**

*Concrete Testing Laboratory Number  
CTL # 012*

**PK Associates dba Briggs  
Engineering & Testing  
100 Weymouth St., Unit C2  
Rockland, MA 02370**

This Laboratory, at the specific site address noted above, having furnished evidence satisfactory to the Board of Building Regulations and Standards, has met the applicable requirements of the Massachusetts State Building Code (780 CMR 110.R1, CONCRETE TESTING LABORATORIES LICENSING); and is, therefore, licensed to operate as a Concrete Testing Laboratory in the Commonwealth of Massachusetts during the Calendar Year 2014.

**Robert Anderson, Administrator  
Board of Building Regulations and Standards**

Program Coordinator: [tom.riley@state.ma.us](mailto:tom.riley@state.ma.us)



# American Association of State Highway and Transportation Officials AASHTO Accreditation Program - Certificate of Accreditation

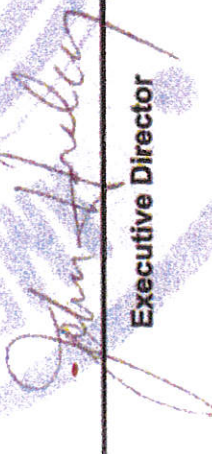
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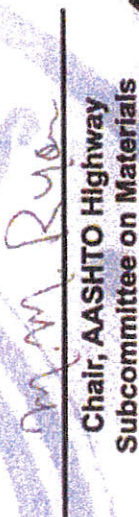
## Briggs Engineering and Testing

Rockland, Massachusetts

has demonstrated proficiency for the testing of construction materials  
and has met the minimum requirements in AASHTO R18  
set forth by the AASHTO Highway Subcommittee on Materials.

The scope of accreditation can be obtained by viewing  
the AAP Directories of Accredited Laboratories ([www.nist.gov/amrl](http://www.nist.gov/amrl))  
or by contacting AMRL.

  
Executive Director

  
Chair, AASHTO Highway  
Subcommittee on Materials







DEPARTMENT OF THE ARMY  
ENGINEER RESEARCH AND DEVELOPMENT CENTER, CORPS OF ENGINEERS  
GEOTECHNICAL AND STRUCTURES LABORATORY  
WATERWAYS EXPERIMENT STATION, 3909 HALLS FERRY ROAD  
VICKSBURG, MISSISSIPPI 39180-6199

October 29, 2013

Reply to the Attention of:  
Concrete and Materials Branch

Sean Skorohod  
PK Associates, Inc.  
dba Briggs Engineering & Testing  
100 Weymouth Street  
Rockland, MA 02370

Dear Mr. Skorohod:

In reference to your check no. 25878, dated October 15, 2013, and audit agreement, dated October 17, 2013, an audit based on your AASHTO Accreditation was performed on documents submitted by your laboratory. We examined the AMRL On-site Assessment Report No. 206T, dated November 30, 2012, the CCRL Inspection Report No. R-730, dated April 27, 2011 and the AASHTO accreditation certificate effective October 29, 2013.

Your Quality System meets the requirements of the U.S. Army Corps of Engineers. The material test methods that you are validated to perform for the U.S. Army Corps of Engineers were determined from the inspection reports from AASHTO and are as follows:

**Aggregate Tests:** ASTM C40, C117, C127, C128, C136, C29, C566, C702, and C1077.

**Bituminous Tests:** ASTM D2041, D2726, D3203, D3666, D6926, D6927, and E329.

**Concrete Tests:** ASTM C31, C39, C138, C143, C172, C173, C231, C1064, C42, C78, C617, C1077, C1231, and E329.

**Soil Tests:** ASTM D422, D698, D1140, D1556, D1557, D2216, D2487, D2488, D3740, D4318, D6938, and E329.

We will add your laboratory to the list of commercial laboratories qualified to conduct material tests for the U.S. Army Corps of Engineers; see the Materials Testing Center homepage at <http://gsl.erd.c.usace.army.mil/SL/MTC/>. All Corps offices will be notified of this decision and will have the opportunity to use your services. PK Associates, Inc., dba Briggs Engineering & Testing, Rockland, MA will remain on our list of laboratories qualified to conduct material tests until **October 29, 2015** two (2) years from the date of the audit. In the event your AASHTO accreditation is suspended in whole or part, PK Associates, Inc., dba Briggs Engineering & Testing, Rockland, MA is to notify the Materials Testing Center immediately to perform a re-evaluation of your laboratory's validation. Failure to notify the Materials Testing Center will result in immediate suspension of your U.S. Army Corps of Engineers validation.

Sincerely,



Alfred B. Crawley, PE  
Director, Materials Testing Center

Copy Furnished:  
Silas T. Sanderson / New England District

## MassDOT Highway Division

# Laboratories Approved for Testing Mortar Bars for Alkali-Silica Reactivity (AASHTO T 303 (modified))

### 2014 Qualified ASR Testing Laboratories

- Advance Testing Company, Inc.  
3348 Route 208  
Campbell Hall, NY 10916-3508
- Boston Testing \*\*  
202 Rover Street  
Everett, MA 02149
- Briggs Engineering & Testing  
100 Weymouth Street  
P.O. Box 369  
Rockland, MA 02370
- CTL Group  
5400 Old Orchard Road  
Skokie, IL 60077-1030
- Simpson Gumpertz & Heger \*  
41 Seyon Street, Building 1, Suite 500  
Waltham, MA 02453-8355

\* At the present time, Simpson Gumpertz & Heger is not available to do testing for the MassDOT Highway Division.

\*\* Please see restriction regarding producer/manufacturer laboratories in the Announcement section of the 2014 Annual Cement Concrete Letter

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# Certificate of Membership

Briggs Engineering & Testing

is a member in good standing  
with the

**NorthEast Transportation Training and  
Certification Program**

For the Year 2014



*Christopher W. Bowker, Executive Director*



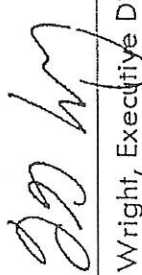
**American Association of State Highway and Transportation Officials**  
**AASHTO Accreditation Program Certificate of Accreditation**

This is to signify that

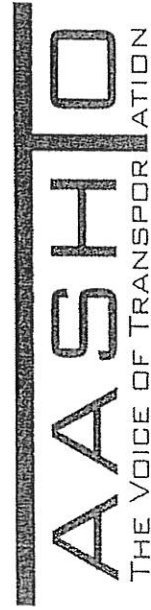
**Briggs Engineering & Testing**  
in  
**Cumberland, Rhode Island**

has demonstrated proficiency for the testing of construction materials and has conformed to the minimum requirements established in AASHTO R 18 set forth by the AASHTO Highway Subcommittee on Materials (HSOM).

The scope of accreditation can be viewed on the AAP Directory of Accredited Laboratories on [www.aaml.net](http://www.aaml.net).

  
\_\_\_\_\_  
Bud Wright, Executive Director

  
\_\_\_\_\_  
Moe Jamshidi, AASHTO HSOM Chair



# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Request for Qualifications for Engineering Services for Testing and Analysis of Concrete and Soil

2. PUBLIC NOTICE DATE

3. SOLICITATION OR PROJECT NUMBER

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Paul Skorohod, President

5. NAME OF FIRM

PK Associates, Inc. dba Briggs Engineering & Testing

6. TELEPHONE NUMBER  
781-871-6040

7. FAX NUMBER  
781-871-4340

8. EMAIL ADDRESS  
paskorohod@briggsengineering.com

### A. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	PRIME	J-V PART- NER	SUB- CON- TRAC- TOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			Briggs Engineering & Testing <input type="checkbox"/> CHECK IF BRANCH OFFICE	100 Weymouth Street P.O. Box 369 Rockland, MA 02370	Prime
b.				X CHECK IF BRANCH OFFICE	100 Pound Road Cumberland, RI 02864	
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
g.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
h.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
i.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)





## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

<b>12. NAME</b> Nicholas Lanney, P.E.	<b>13. ROLE IN THIS CONTRACT</b> Project Engineer	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 40	<b>b. WITH CURRENT FIRM</b> 13
<b>15. FIRM NAME AND LOCATION (City and State)</b> Briggs Engineering & Testing			
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Tufts University, BS, Geology University of Michigan, MS Geology MIT, MS Geotechnical Engineering		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Massachusetts, Registration #30789 Maine Vermont Connecticut	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> Licensed Site Professional Massachusetts Certified Soil Evaluator			

### 19. RELEVANT PROJECTS

<b>a.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Contract to Provide Construction Inspection & Engineering Services relative to testing and analysis of concrete and soils used on various streets and construction projects in the City of Boston	<b>(2) YEAR COMPLETED</b>	
		<b>PROFESSIONAL SERVICES</b> On Going	<b>CONSTRUCTION (If applicable)</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Oversees the construction testing materials laboratory and field services relative to concrete, soils, bituminous concrete and masonry.		
<b>b.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Providence DPW, Providence, RI	<b>(2) YEAR COMPLETED</b>	
		<b>PROFESSIONAL SERVICES</b> On-Going	<b>CONSTRUCTION (If applicable)</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Oversees the construction testing materials laboratory and field testing and inspections services for concrete, soils, and bituminous concrete Related to the reconstruction of streets and sidewalks.		
<b>c.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		<b>PROFESSIONAL SERVICES</b>	<b>CONSTRUCTION (If applicable)</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
<b>d.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		<b>PROFESSIONAL SERVICES</b>	<b>CONSTRUCTION (If applicable)</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> <input type="checkbox"/> Check if project performed with current firm		
<b>e.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		<b>PROFESSIONAL SERVICES</b>	<b>CONSTRUCTION (If applicable)</b>
	<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		

12. NAME Sean Skorohod	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 24	b. WITH CURRENT FIRM 24

15. FIRM NAME AND LOCATION (City and State)  
Briggs Engineering & Testing

16. EDUCATION (DEGREE AND SPECIALIZATION)  
Suffolk University

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

ACI Certified Concrete Inspector, Certified Nuclear Density Gauge Technician, ACI Concrete Construction Special Inspector, ACI Laboratory Technician Grade 1, ACI Aggregate Testing Technician Grade 1, ACI Strength Testing Technician, NETTCP Soils and Aggregate Inspector

### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Suffolk University, 20 Somerset Project, Boston, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE The construction of a complex cast-in-place building is 110,000 square feet, 10 floors with two partially or fully below grade four floors each of general-education and laboratory-ready science classrooms of various sizes with 1,100 classroom seats and a light-filled cafeteria/function space. Total construction cost of \$62M. Acting as Project Manager.		
b.	(1) TITLE AND LOCATION (City and State) Contract to Provide Construction Inspection & Engineering Services relative to testing and analysis of concrete and soils used on various streets and construction projects in the City of Boston	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Assigned as Project Manager overseeing all concrete and soils inspection and laboratory tests performed for the City of Boston. Total contract for testing is \$300,000.00.		
c.	(1) TITLE AND LOCATION (City and State) New Boston Landing, Boston, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Boston Landing broke ground in late summer of (2013) on the \$500M, New Boston Landing Project, which will include a 250,000-square-foot New Balance Athletic Shoe HQ, a 345,000-square-foot sports complex including a 200-meter hydraulic-banked track and field facility, a National Hockey League regulation arena, a 175-room hotel, up to 650,000 square feet of office spread among three buildings, 65,000 square feet of retail, 1,750 parking spaces, and a new stop on the Worcester Commuter Rail Line. Assigned as the Project Manager.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		

12. NAME Michael Obisanya	13. ROLE IN THIS CONTRACT Senior QC Technician	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Briggs Engineering & Testing			
16. EDUCATION (DEGREE AND SPECIALIZATION) Federal University of Technology, BS Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) EIT	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ACI Certified Concrete Inspector, Certified Nuclear Density Gauge Technician. NETTCP Concrete Inspector, NETTCP Soils & Aggregate Inspector			

#### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Providence Viaduct	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE The Project consists of the replacement of I-95 Providence Viaduct, Bridge No. 578 in downtown Providence, Rhode Island. The Project includes replacing the existing structure by constructing two new independent bridge structures and rebuilding the adjacent ramp structures north and south of the viaduct. Total project cost is \$130,000,000.00. Assigned as Sr. QC Technician performing of concrete and soils inspections.		
b.	(1) TITLE AND LOCATION (City and State) Providence DPW, Providence, RI	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Provide technician to perform inspection of soils compaction, concrete testing and bituminous concrete inspection related to the reconstruction of streets and sidewalks. Testing contract valued at \$100,000.00		
c.	(1) TITLE AND LOCATION (City and State) Construction Inspection Services for the Reconstruction of the Fore River bridge	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE A \$244.6 million design-build contract for the replacement of the Fore River Bridge to White-Skanska Koch, J.V. The bridge carries Route 3A over the Fore River and links the communities of Quincy and Weymouth. SR. QC Technician performing inspection and testing on concrete.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		



12. NAME Peter Dorrance	13. ROLE IN THIS CONTRACT Senior QC Technician	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 1.5
15. FIRM NAME AND LOCATION (City and State) Briggs Engineering & Testing			
16. EDUCATION (DEGREE AND SPECIALIZATION) Green Mountain College, BS Environmental Science		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ACI Certified Concrete Inspector, Certified Nuclear Density Gauge Technician. NETTCP Concrete Inspector, NETTCP Soils & Aggregate Inspector			

#### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Providence DPW, Providence, RI	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On-Going	
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE Provide technician to perform inspection of soils compaction, concrete testing and bituminous concrete inspection related to the reconstruction of streets and sidewalks. Testing contract valued at \$100,000.00		
<input checked="" type="checkbox"/> Check if project performed with current firm			
b.	(1) TITLE AND LOCATION (City and State) Construction Inspection Services for the Reconstruction of the Fore River bridge	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On-Going	
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE A \$244.6 million design-build contract for the replacement of the Fore River Bridge to White-Skanska Koch, J.V. The bridge carries Route 3A over the Fore River and links the communities of Quincy and Weymouth. Senior QC Technician performing inspection and testing on concrete.		
<input checked="" type="checkbox"/> Check if project performed with current firm			
c.	(1) TITLE AND LOCATION (City and State) Construction Inspection Services for Utility Loop Corridor & Roadway Project	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On-Going	
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE BVH's scope of work on this approximately \$110-million project includes the design of a new roadway network to improve overall traffic circulation and pedestrian connections, and a campus-wide utility corridor - including hot and chilled water piping, domestic and fire protection piping, medium voltage electric, telecommunications, sanitary and gas - to improve utility services to existing and future buildings. Assigned to perform concrete and soils inspection and tests.		
<input checked="" type="checkbox"/> Check if project performed with current firm			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		
<input type="checkbox"/> Check if project performed with current firm			
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		
<input type="checkbox"/> Check if project performed with current firm			

12. NAME Andrew Simpson	13. ROLE IN THIS CONTRACT Senior QC Technician	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 1.5
15. FIRM NAME AND LOCATION (City and State) Briggs Engineering & Testing			
16. EDUCATION (DEGREE AND SPECIALIZATION) South Dakota State, Construction Mgmt.		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ACI Certified Concrete Inspector, Certified Nuclear Density Gauge Technician. NETTCP Concrete Inspector, NETTCP Soils & Aggregate Inspector, NETTCP Concrete Technician, NETTCP HMA Paving Inspector,			

#### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) The Longfellow Bridge Rehabilitation Project, Cambridge, Massachusetts	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On-Going	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Repairs and rehabilitation of the existing bridge, total construction cost is \$280M. Assigned as Sr. QC Technician performing concrete field and plant inspections.			
b.	(1) TITLE AND LOCATION (City and State) Construction Inspection Services for the Reconstruction of the Fore River bridge	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On-Going	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
A \$244.6 million design-build contract for the replacement of the Fore River Bridge to White-Skanska Koch, J.V. The bridge carries Route 3A over the Fore River and links the communities of Quincy and Weymouth. Senior QC Technician performing inspection and testing on concrete.			
c.	(1) TITLE AND LOCATION (City and State) Construction Inspection Services for Utility Loop Corridor & Roadway Project	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		On-Going	
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
BVH's scope of work on this approximately \$110-million project includes the design of a new roadway network to improve overall traffic circulation and pedestrian connections, and a campus-wide utility corridor - including hot and chilled water piping, domestic and fire protection piping, medium voltage electric, telecommunications, sanitary and gas - to improve utility services to existing and future buildings. Assigned as senior technician to inspect concrete and soils.			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

<b>12. NAME</b> Robert Carter	<b>13. ROLE IN THIS CONTRACT</b> Senior QC Technician	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 17	<b>b. WITH CURRENT FIRM</b> 17
<b>15. FIRM NAME AND LOCATION (City and State)</b> Briggs Engineering & Testing			
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b>		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b>	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> NETTCP Concrete Inspector, ACI Certified Concrete Inspector, Certified Nuclear Density Gauge Technician, NETTCP Soils and Aggregate Inspector			

### 19. RELEVANT PROJECTS

<b>a.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Brightman Street Bridge, Swansea, MA	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> The work on the bridges was comprised of but not limited to construction of concrete piers and abutments, excavation, embankment, mechanically stabilized earth walls, steel box girders superstructure, steel plate girders, concrete bridge decks and bridge railings. Total cost was \$180 million. Assigned as a Senior QC Inspector testing concrete Total contract for testing was \$886,000.00.		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>b.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Providence DPW, Providence, RI	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> Provide technician to perform inspection of soils compaction, concrete testing and bituminous concrete inspection related to the reconstruction of streets and sidewalks. Testing contract valued at \$100,000.00		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>c.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Providence Viaduct	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> The Project consists of the replacement of I-95 Providence Viaduct, Bridge No. 578 in downtown Providence, Rhode Island. The Project includes replacing the existing structure by constructing two new independent bridge structures and rebuilding the adjacent ramp structures north and south of the viaduct. Total project cost is \$130,000,000.00. Assigned as Sr. QC Technician performing of concrete and soils inspections.		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>d.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b>		<input type="checkbox"/> Check if project performed with current firm	
<b>e.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b>		<input checked="" type="checkbox"/> Check if project performed with current firm	





## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT


<b>12. NAME</b> William Farmer	<b>13. ROLE IN THIS CONTRACT</b> Senior QC Technician	<b>14. YEARS EXPERIENCE</b>	
		a. TOTAL 14	b. WITH CURRENT FIRM 14
<b>15. FIRM NAME AND LOCATION (City and State)</b> Briggs Engineering & Testing			
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b>		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b>	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> NETTCP Concrete Inspector, NETTCP Concrete Plant Technician, NETTCP Hot Mix Asphalt Paving Inspector, NETTCP HMA Plant Technician, ACI Certified Concrete Inspector, Certified Nuclear Density Gauge Technician, NETTCP Soils and Aggregate Inspector			

### 19. RELEVANT PROJECTS




<b>a.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Brightman Street Bridge, Swansea, MA	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> The work on the bridges was comprised of but not limited to construction of concrete piers and abutments, excavation, embankment, mechanically stabilized earth walls, steel box girders superstructure, steel plate girders, concrete bridge decks and bridge railings. Total cost was \$180 million. Assigned as a Senior QC Inspector testing concrete Total contract for testing was \$886,000.00.		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>b.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> Construction Inspection Services for the Reconstruction of the Fore River bridge	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> A \$244.6 million design-build contract for the replacement of the Fore River Bridge to White-Skanska Koch, J.V. The bridge carries Route 3A over the Fore River and links the communities of Quincy and Weymouth. SR. QC Technician performing inspection and testing on concrete.		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>c.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> The Longfellow Bridge Rehabilitation Project, Cambridge, Massachusetts	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b> Repairs and rehabilitation of the existing bridge, total construction cost is \$280M. Assigned as Sr. QC Technician performing of concrete.		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>d.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b>		<input type="checkbox"/> Check if project performed with current firm	
<b>e.</b>	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE</b>		<input checked="" type="checkbox"/> Check if project performed with current firm	

F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 1
21. Title and location: (City and State)	22. Year completed:	
Construction Inspection & Engineering Services For Various Street Reconstruction Projects in the City of Boston	Professional services:	Construction: (If applicable)
	On going	
23. Project owner's information:		
A. Project owner: Boston Public Works Department	B. Points of contact names: Katie Choe	C. Point of contact telephone number: 617-635-4955
24. Brief description of project and relevance to this contract <p>Construction inspection and oversight related to the construction of city streets and sidewalks. This includes review and evaluate contractor's work schedule, insure conformance to plans and specifications, observe daily construction activities, review daily records of construction work, track project estimates and costs, maintain quality control data collection and entry and prepare various reports. Prepare project punchlists, address resident complaints and coordinate with all utility companies to complete needed tasks for completion of street construction. Perform city wide survey of streets to document existing conditions.</p> <p>In addition, also perform inspection services related to utility and private construction projects. This includes ensuring that the various utility and maintenance companies comply with the required specifications and regulations. Total contract amount is \$6.6M</p>		
		
		
25. Firms from Section C involved with this project:		
a,	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime



F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 2
21. Title and location: (City and State)	22. Year completed:	
Construction Management and Inspection Services, Providence DPW For Various Street Reconstruction Projects in the City of Providence	Professional services: On-going	Construction: (If applicable)
23. Project owner's information:		
A. Project owner: Providence Public Works Department	B. Points of contact names: Nate Urso	C. Point of contact telephone number: 401-467-7950
24. Brief description of project and relevance to this contract		
<p>Provide Project Manager and Resident Engineers to monitor the construction and reconstruction of asphalt and concrete roadways and sidewalks, minor drainage and sewer improvements, installation of traffic signals, and other public work improvements in accordance with specifications. Keep records of inspections, construction activities, payment quantities, project budgets and scheduling. Also perform testing of concrete, bituminous concrete and soils compaction, both in the field and plant.</p>		
		
25. Firms from Section C involved with this project:		
a.	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime



F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 3
21. Title and location: (City and State)	22. Year completed:	
The Longfellow Bridge Rehabilitation Project, Cambridge, Massachusetts	Professional services: On-going	Construction: (If applicable)
23. Project owner's information		
A. Project owner: Massachusetts Department of Transportation (Mass DOT)	B. Points of contact names: Mr. Peter Rapp, Project Manager Mr. Mr. Chris Martel, QC Manager White, Skanska Consigli Joint Venture	C. Point of contact telephone number: 617-454-1661
24. Brief description of project and relevance to this contract (Include scope, size, and cost)		
<p>Briggs Engineering &amp; Testing provided Construction Inspection and Testing Services to the White, Skanska Consigli Joint Venture.</p> <p>Mass DOT is undertaking the Longfellow Bridge Rehabilitation Project, a major project of the Patrick Administration's <a href="#">Accelerated Bridge Program</a>. The historic bridge is a vital link between Boston and Cambridge, making important regional connections and contributing to the Charles River Basin Historic District. The three and half year rehabilitation project will address the bridge's current structural deficiencies, upgrade its structural capacity and bring it up to modern code, including improving multi-modal access and bridge-to-city-street connections to meet accessibility guidelines. The repairs and modifications will be consistent with the historic character of the bridge and comply with environmental standards. Total cost of construction is \$280M.</p>		
		
<div style="display: flex; justify-content: space-around;">   </div>		
25. Firms from Section C involved with this project:		
a.	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Independent Quality Assurance

F. Example projects that best illustrate proposed team's qualifications for this contract:	20. Example project key number: 4
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21. Title and location: (City and State)	22. Year completed:	
Brightman Stret Bridge, Fall River & Somerset, MA	Professional services: 2011	Construction: (If applicable)

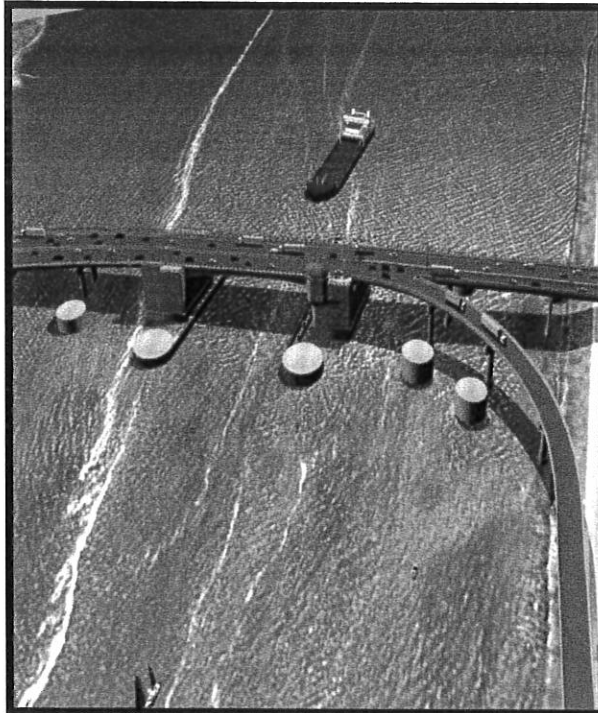
A. Project owner: Massachusetts Department of Transportation	B. Points of contact names: Jim Peaks	C. Point of contact telephone number: 202-773-5852
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24. Brief description of project and relevance to this contract (Include scope, size, and cost)

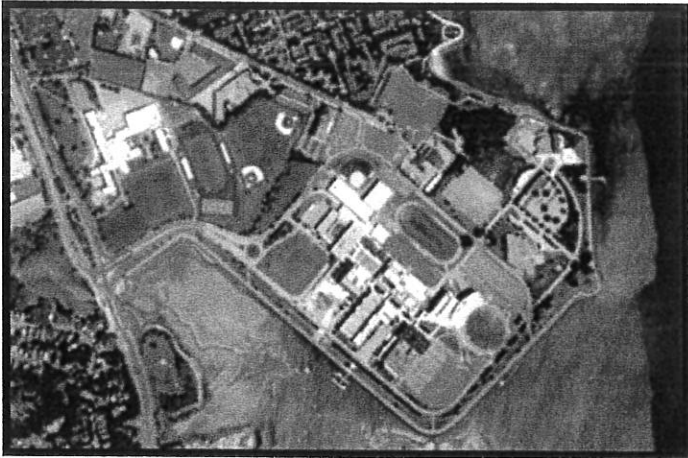
Briggs Engineering & Testing provided Construction Inspection and Testing Services as a consultant to Cianbro/Middlesex.

The work on the bridges was comprised of but not limited to construction of concrete piers and abutments, excavation, embankment, mechanically stabilized earth walls, steel box girders superstructure, steel plate girders, concrete bridge decks and bridge railings. Total cost was \$180 million. Quantities include 24,000 cy of concrete, 15,000,000 lbs of structural steel, 470 tons of steel H-Piles, 125,000 cy of excavation and two miles of roadwork.


Briggs scope of services included the inspection and testing of concrete, reinforcing steel, structural steel, soil and bituminous concrete both in the field and plant. In addition, the Quality Assurance Manager for the project was a full time employee of Briggs. Total fee was \$886,000.00.



25. Firms from Section C involved with this project:		
a,	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime

F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 5
21. Title and location: (UCRR Project, University of Massachusetts, Boston, MA (UMB) Construction Inspection Services for Utility Loop Corridor & Roadway Project		22. Year completed: ONGOING
		Professional services: Quality Assurance, Testing and Inspections
		Construction: (If applicable) Vertical
		ONGOING
23. Project owner's information: University of Massachusetts Building Authority (UMBA), Owners Project Management Firm is Joslin Lesser & Associates		
A. Project owner: UMB / UMBA	B. Points of contact names: BVH Inc. Mr. James R. Velleman, P.E., Project Mngr.	C. Point of contact telephone number: (617)-658-9008
24. Brief description of project and relevance to this contract (Include scope, size, and cost)		
<p>UMass Boston is committed to becoming a student-centered, urban public research university of the 21st century, and is making significant improvements to enhance the student experience and improve connections with its neighbors. BVH was awarded the contract for the final design and construction administration of the university's Utility Corridor and Roadway Relocation project, an important transformative start of more than \$700 million in new facilities and infrastructure construction on the campus over the next 25 years.</p> <p>BVH's scope of work on this approximately \$110-million project includes the design of a new roadway network to improve overall traffic circulation and pedestrian connections, and a campus-wide utility corridor - including hot and chilled water piping, domestic and fire protection piping, medium voltage electric, telecommunications, sanitary and gas - to improve utility services to existing and future buildings.</p> <p>Among BVH's team of sub-consultants, Sasaki Associates is providing landscape architecture and architecture services, and Nitsch Engineering is providing storm drainage, parking and traffic engineering. Joslin Lesser &amp; Associates is the Owner's Project Manager and Briggs E&amp;T is providing quality assurance testing and inspections. The Utility Corridor and Roadway Relocation project is funded and overseen by the UMass Building Authority.</p>		
		
25. Firms from Section C involved with this project:		
a,	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime



F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 6
21. Title and location: (Tata Hall, Weston Ave., Boston, MA)	22. Year completed: 2013	
Construction Inspection Services for Tata Hall at Harvard Business School, Boston, MA	Professional services: Quality Assurance, Testing and Inspections	Construction: (If applicable) Vertical
	Completed	
23. Project owner's information: Harvard Business School, Boston, MA		
A. Project owner: Harvard Business School	B. Points of contact names: Mr. Robert Olsen, Project Manager	C. Point of contact telephone number: (617)-835-7514
24. Brief description of project and relevance to this contract (Include scope, size, and cost)		
<p>The new \$100M Tata Hall is comprised of approximately 150,000 square feet, featuring a structural steel design, 180 bedrooms to house visiting executives, and spans six floors.</p> <p>It was designed in accordance with LEED Gold certification--the second-highest sustainability rating awarded by the United States Green Building Council--and will feature triple-glazed windows and a green roof.</p>		
		
25. Firms from Section C involved with this project:		
a.	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime

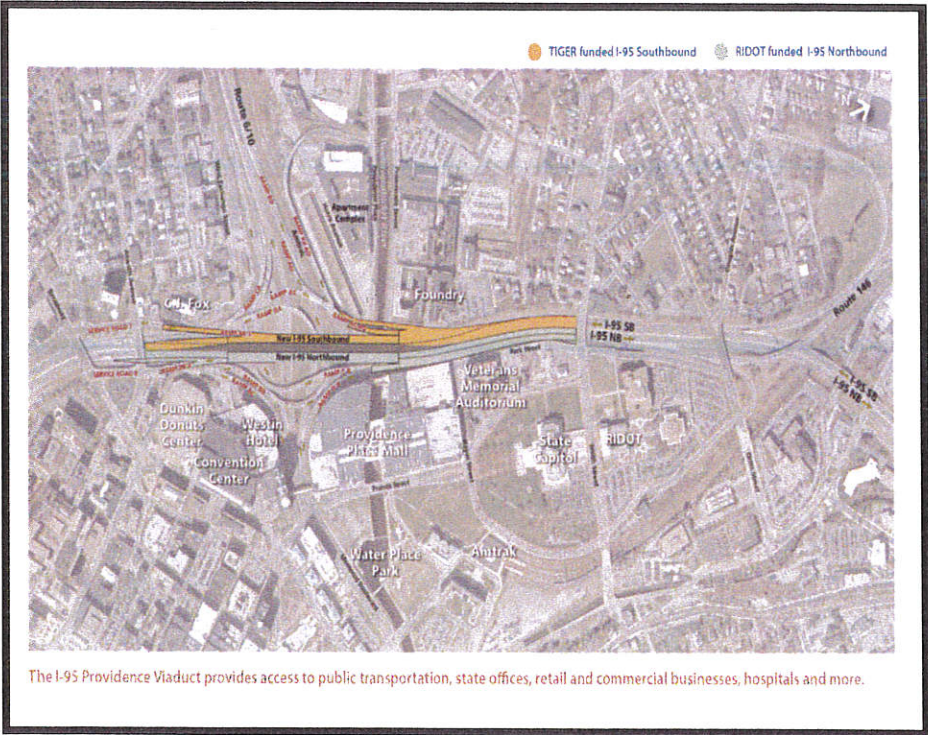
F. Example projects that best illustrate proposed team's qualifications for this contract:	20. Example project key number: 7
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21. Title and location: (City and State)	22. Year completed:	
I-95 Providence Viaduct, Providence, RI	Professional services: On-going	Construction: (If applicable)

23. Project owner's information:		
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A. Project owner: Rhode island DOT	B. Points of contact names: Dan Bassett, Project Mgr., Manafort Bros.	C. Point of contact telephone number: 401-529-6473
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24. Brief description of project and relevance to this contract (Include scope, size, and cost)
<p>The Project consists of the replacement of I-95 Providence Viaduct, Bridge No. 578 in downtown Providence, Rhode Island. The Project includes replacing the existing structure by constructing two new independent bridge structures and rebuilding the adjacent ramp structures north and south of the viaduct. The replacement structure will consist of 1,290-foot long continuous steel girder spans supporting a reinforced concrete deck. The new concrete piers and abutments will be supported on steel piles. Each bridge structure will be constructed to accommodate at least four 12-foot lanes of traffic to provide adequate capacity during construction and for future maintenance activities. Briggs E&amp;T has been retained by Manafort Brothers Inc. to provide independent quality control. Total project cost is \$130,000,000.00.</p>




25. Firms from Section C involved with this project:			
a.	(1) Firm Name	(2) Firm Location	(3) Role
	Briggs Engineering & Testing	Rockland, MA	Prime



F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 8
21. Title and location: (20 Somerset Street, Boston, MA)	22. Year completed: ONGOING	
Construction Inspection Services for Suffolk Universities 20 Somerset Street Academic Facility	Professional services: Quality Assurance, Testing and Inspections	Construction: (If applicable) Vertical
	ONGOING	
23. Project owner's information: Suffolk University, Boston, MA, Leggat McCall is the Owners Project Management Firm (LMP)		
A. Project owner: Suffolk University, Boston, MA	B. Points of contact names: Mr. Jerry Yankauskas, Senior Project Manager (LMP)	C. Point of contact telephone number: (617)-422-7038
24. Brief description of project and relevance to this contract (Include scope, size, and cost)		
<p>The 20 Somerset site is the location of the old MDC headquarters, which will be gradually deconstructed with the new \$62M building rising in its place constructed by Suffolk Construction. The project, once completed, will allow the University to relocate all academic classrooms from residential Beacon Hill. The University worked with the NBBJ architectural and Leggat McCall the owners project management firm on the project. It's designed and constructed according to high green design and sustainability standards and will seek LEED Silver certification.</p> <p>The complex cast-in-place building is 110,000 square feet, 10 floors with two partially or fully below grade four floors each of general-education and laboratory-ready science classrooms of various sizes with 1,100 classroom seats and a light -filled cafeteria/function space.</p>		
		
25. Firms from Section C involved with this project:		
a.	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime

F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 9
21. Title and location: (City and State)	22. Year completed:	
Construction Inspection Services for the Reconstruction of the Fore River bridge	Professional services:	Construction: (If applicable)
	On going	
23. Project owner's information:		
A. Project owner: Massachusetts Department of Transportation	B. Points of contact names: J.F. White, Andrea Burke	C. Point of contact telephone number: 508-879-4700
24. Brief description of project and relevance to this contract (Include scope, size, and cost) Briggs Engineering & Testing is providing Construction Inspection and Testing Services as a consultant to White-Skanska Koch, J.V.  The MassDOT board of directors awarded its largest contract ever, a \$244.6 million design-build contract for the replacement of the Fore River Bridge to White-Skanska Koch, J.V. The bridge carries Route 3A over the Fore River and links the communities of Quincy and Weymouth.  The new vertical lift moveable bridge will allow for two lanes of traffic in each direction and will incorporate Mass DOT's Complete Streets vision with 5-ft. bike lanes and 6.5-ft. sidewalks on each side."  Construction of the new bridge is expected to take 3 1/2 years.		
		
25. Firms from Section C involved with this project:		
a.	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime



F. Example projects that best illustrate proposed team's qualifications for this contract:		20. Example project key number: 10
21. Title and location: (Boston Landing, 100 Guest Street, Boston, MA)	22. Year completed: ONGOING	
Construction Inspection Services for The Boston Landing Project, Boston, MA	Professional services: Quality Assurance, Testing and Inspections	Construction: (If applicable) Vertical
	ONGOING	
23. Project owner's information: Boston Landing LLC, c/o NB Development Group LLC		
A. Project owner: NB Development Group LLC	B. Points of contact names: Mr. Eric Servies, Owners Project Manager	C. Point of contact telephone number: (617)-272-6094
24. Brief description of project and relevance to this contract (Include scope, size, and cost)		
<p>Boston Landing broke ground in late summer of (2013) on the \$500M, New Boston Landing Project, which will include a 250,000-square-foot New Balance Athletic Shoe HQ, a 345,000-square-foot sports complex including a 200-meter hydraulic-banked track and field facility, a National Hockey League regulation arena, a 175-room hotel, up to 650,000 square feet of office spread among three buildings, 65,000 square feet of retail, 1,750 parking spaces, and a new stop on the Worcester Commuter Rail Line.</p> <p>John Moriarty &amp; Associates the general contractor and PMA Consultants the owners project manager have been working on a six-story headquarters for New Balance. The building, designed by Elkus Manfredi Architects, will take 18 to 24 months to complete.</p>		
		
25. Firms from Section C involved with this project:		
a.	(1) Firm Name	(2) Firm Location
	Briggs Engineering & Testing	Rockland, MA
		(3) Role
		Prime

### G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Examples Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Nicholas Lanney, P.E.	Principal Engineer	X	X								
Sean Skorohod	Staff Engineer/Project Manager	X	X								X
George Bradley	Senior QC Technician	X					X		X	X	
John Glover	Senior QC Technician	X		X						X	
Astley Kerr	Senior QC Technician	X							X		X
John Littlefield	Senior QC Technician				X		X				X
Michael Obisanya	Senior QC Technician		X					X		X	
Emmanuel Noel	Senior QC Technician	X	X								X
Peter Dorrance	Senior QC Technician		X			X				X	
Andrew Simpson	Senior QC Technician			X		X				X	
Robert Carter	Senior QC Technician		X		X			X			
William Farmer	Senior QC Technician			X	X					X	

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Construction Insp. & Engr. Services for various Street Reconstruction Projects in the City of Boston	6	Tata Hall, Harvard Univ.
2	Providence DPW	7	Providence Viaduct
3	Longfellow Bridge	8	Suffolk Universities 20 Somerset Street Academic Facility
4	Brightman Street Bridge	9	Fore River bridge, Quincy
5	Utility Loop Corridor & Roadway Project	10	The Boston Landing Project, Boston, MA



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#### H. ADDITIONAL INFORMATION

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30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Briggs Engineering & Testing has several years of experience with the City of Boston PWD providing the exact services required by this solicitation. Over that span of time we have provided soil & concrete sampling & lab testing along with concrete batch plant inspections and consulting services on application specific concrete mix designs along with soil gradation specifications.

In support of this function, Briggs E&T is a fully accredited Construction Inspection & Materials Testing Agency/Lab. Our current lab certifications & accreditations include:

1. Massachusetts Dept. of Public Safety Licensed Concrete Testing Lab (No. 012).
2. American Association of State Highway and Transportation Officials Accredited (AASHTO).
3. Army Corp of Engineers Accredited Materials Certified Testing Laboratory.
4. Northeast Transportation Training & Certification Program (NETTCP) Approved Lab.
5. MADOT Pre-qualified Materials Testing Lab.

We currently have a staff of 120 very professional people. Most quality assurance inspection &/or testing disciplines have various degrees of inspector qualifications and/or certifications. We offer the following for this solicitation:

Soils/Earthwork:

Field Soil Compaction Technicians &/or Geotechnical Engineers  
NETTCP Certified Soil & Aggregate Inspectors  
NICET Certified Level II Soils Inspectors  
NETTCP Certified Drilled Shaft Inspectors  
Registered Professional Geotechnical Engineer (P.E.)

Concrete:

NETTCP Certified Concrete Inspectors (Field, Batch Plant & Lab)  
ACI Certified Grade 1 Field Testing Technicians (ACI CFTT)  
ACI Certified Concrete Construction Special Inspectors (ACI CCI)  
ACI Certified Concrete Lab Testing Technicians  
NICET Level II Concrete Inspectors

This diversity and depth means that we have experts in both the physical properties and the application/installation of soil/earthwork, concrete & asphalt. This unique qualification compliments our role with the PWD. as most of the work we're involved with includes one or more of these construction elements. We also have the ability to perform supplemental services to the core scope, including condition surveys of existing infrastructure and full geotechnical investigations using our own in-house staff which are able to mobilize at a moment's notice.

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#### I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

09/09/2014

33. NAME AND TITLE

Kenneth M. Oliver, Vice President



#### H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

##### Legal Proceedings:

Over the last 5 years, Briggs has been involved in the following legal proceedings:

1. 10/2007-7/2010, Parris Landing Condominium Trust v. Draper Kramer, Inc. Et al Suffolk Superior Court CA No. SUVC , Negligence Claim against Briggs/PK Assoc. for Engineering Services as consultant to Draper Kramer, Inc. Resolution Outcome: Judgment for Briggs/PK Assoc., Inc.

2. 8/2011, Briggs/PK Assoc v. Silktown Roofing, Inc. Et al, Plymouth Superior Court C.A. No. 2011-0048-A, Reimbursement for Attorney Fees in Parris Landing Case, Resolution Outcome: Settled in favor of Briggs/PK Assoc., Inc.

##### Affirmative Action Policy Statement:

PK Assoc., Inc. d/b/a Briggs Engineering and Testing will provide equal employment opportunities to all qualified persons and prohibit discrimination regarding employment on the grounds of race, religion, age, sex, color, Vietnam-era Veteran status, handicap or national origin. Briggs shall take affirmative steps to insure realization of equal employment opportunities in all affairs of the company and in those organizations doing business with the company. A copy of our formal Affirmative Action Policy is available upon request.

#### I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

33. NAME AND TITLE

Kenneth M. Oliver, Vice President

09/09/2014



## 1. SOLICITATION NUMBER (If any)

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME BRIGGS ENGINEERING AND TESTING			3. YEAR ESTABLISHED 1996		4. DUNS NUMBER 150973972	
2b. STREET 100 Weymouth Street			5. OWNERSHIP a. TYPE CORPORATION			
2c. CITY Boston		2d. STATE MA	2e. ZIP CODE 02111		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE Paul Skorohod, President			7. NAME OF FIRM (If block 2a is a branch office)			
6b. TELEPHONE NUMBER 781-871-6040		6c. E-MAIL ADDRESS paskorohod@briggsengineering.com				
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED		8c. DUNS NUMBER	

#### 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	13		C15	Construction Management	3
12	Civil Engineer	10		T02	Testing and Inspection Services	7
15	Construction Inspector	91				
16	Construction Manager/ Resident Engineer	4				
27	Foundation/Geotechnical Engineer	3				
48	Project Manager	3				
57	Structural Engineer	1				
	Total	125				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS  
(insert revenue index number shown at right)

a. Federal Work	
b. Non-Federal	7
c. Total Work	7

## PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

SEPTEMBER 8, 2014

C. NAME AND TITLE

Paul Skorohod, President



State of Rhode Island and Providence Plantations  
Department of Administration  
Division of Purchases

**RIVIP BIDDER CERTIFICATION COVER FORM**

**SECTION 1 - BIDDER INFORMATION**

*Bidder must be registered as a vendor on the RIVIP system at [www.purchasing.ri.gov](http://www.purchasing.ri.gov) to submit a bid proposal.*

**Solicitation Number:** 7549212  
**Solicitation Title:** CONSTRUCTION TESTING SERVICES, MPA-507 (36 PGS)  
  
**Bid Proposal Submission  
Deadline Date & Time:** 2/16/2015 11:30 AM  
  
**RIVIP Vendor ID #:** 73916  
**Bidder Name:** PK Associates Inc.  
**Address:** 100 Weymouth St., Unit C-  
  
Rockland , MA 02370  
USA  
  
**Telephone:** 781-871-6040  
**Fax:**  
**Contact Name:** Todd Livolsi  
**Contact Title:** Manager  
**Contact Email:** tlivolsi@briggsengineering.com

**SECTION 2 —DISCLOSURES**

**Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.**

*Indicate "Y" (Yes) or "N" (No) for Disclosures 1-3, and if "Yes," provide details below. Complete Disclosure 4.*

- N 1. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has been subject to suspension or debarment by any federal, state, or municipal governmental authority, or the subject of criminal prosecution, or convicted of a criminal offense within the previous 5 years. If "Yes," provide details below.
- N 2. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has had any contracts with a federal, state, or municipal governmental authority terminated for any reason within the previous 5 years. If "Yes," provide details below.
- N 3. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has been fined more than \$5000 for violation(s) of any Rhode Island environmental law(s) by the Rhode Island Department of Environmental Management within the previous 5 years. If "Yes," provide details below.
4. List each officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder. For each individual, provide his or her name, business address,

principal occupation, position with the Bidder, and the percentage of ownership, if any, he or she holds in the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder.

*Disclosure details (continue on additional sheet if necessary):*

The legal name of the company is PK Associates Inc. d/b/a Briggs Engineering and Testing. The company is co-owned by

Paul Skorohod, President, and Kenneth Oliver, Executive Vice President. It is a private company and both owners have a 50% ownership interest.

### SECTION 3 —CERTIFICATIONS

**Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.**

*Indicate "Y" (Yes) or "N" (No), and if "No," provide details below.*

#### THE BIDDER CERTIFIES THAT:

- Y 1. The Bidder will immediately disclose, in writing, to the State Purchasing Agent any potential conflict of interest which may occur during the term of any contract awarded pursuant to this solicitation.
- Y 2. The Bidder possesses all licenses and anyone who will perform any work will possess all licenses required by applicable federal, state, and local law necessary to perform the requirements of any contract awarded pursuant to this solicitation and will maintain all required licenses during the term of any contract awarded pursuant to this solicitation. In the event that any required license shall lapse or be restricted or suspended, the Bidder shall immediately notify the State Purchasing Agent in writing.
- Y \* 3. The Bidder will maintain all required insurance during the term of any contract pursuant to this solicitation. In the event that any required insurance shall lapse or be canceled, the Bidder will immediately notify the State Purchasing Agent in writing.
- Y 4. The Bidder understands that falsification of any information in this bid proposal or failure to notify the State Purchasing Agent of any changes in any disclosures or certifications in this Bidder Certification may be grounds for suspension, debarment, and/or prosecution for fraud.
- N 5. The Bidder has not paid and will not pay any bonus, commission, fee, gratuity, or other remuneration to any employee or official of the State of Rhode Island or any subdivision of the State of Rhode Island or other governmental authority for the purpose of obtaining an award of a contract pursuant to this solicitation. The Bidder further certifies that no bonus, commission, fee, gratuity, or other remuneration has been or will be received from any third party or paid to any third party contingent on the award of a contract pursuant to this solicitation.
- N 6. This bid proposal is not a collusive bid proposal. Neither the Bidder, nor any of its owners, stockholders, members, partners, principals, directors, managers, officers, employees, or agents has in any way colluded, conspired, or agreed, directly or indirectly, with any other bidder or person to submit a collusive bid proposal in response to the solicitation or to refrain from submitting a bid proposal in response to the solicitation, or has in any manner, directly or indirectly, sought by agreement or collusion or other communication with any other bidder or person to fix the price or prices in the bid proposal or the bid proposal of any other bidder, or to fix any overhead, profit, or cost component of the bid price in the bid proposal or the bid proposal of any other bidder, or to secure through any collusion, conspiracy, or unlawful agreement any advantage against the State of Rhode Island or any person with an interest in the contract awarded pursuant to this solicitation. The bid price in the bid proposal is fair and proper and is not tainted by any collusion, conspiracy, or unlawful agreement on the part of the Bidder, its owners, stockholders, members, partners, principals, directors, managers, officers, employees, or agents.
- N 7. The Bidder: (i) is not identified on the General Treasurer's list created pursuant to R.I. Gen. Laws § 37-2.5-3 as a person or entity engaging in investment activities in Iran described in § 37-2.5-2(b); and (ii) is not engaging in any such investment activities in Iran.
- Y 8. The Bidder will comply with all of the laws that are incorporated into and/or applicable to any contract with the State of Rhode Island.

*Certification details (continue on additional sheet if necessary):*

Y\* 3. Bidder (Briggs E&T) Carries \$1M in Personal Liability Insurance. We understand that the Solicitation requirement is \$2M.

If selected, Briggs would need to negotiate the PLI requirement with the State Purchasing Authority.

Submission by the Bidder of a bid proposal pursuant to this solicitation constitutes an offer to contract with the State of Rhode Island through the Division of Purchases on the terms and conditions contained in this solicitation and the bid proposal. The Bidder certifies that: (1) the Bidder has reviewed this solicitation and agrees to comply with its terms and conditions; (2) the bid proposal is based on this solicitation; and (3) the information submitted in the bid proposal (including this RIVIP Bidder Certification Cover Form) is accurate and complete. The Bidder acknowledges that the terms and conditions of this solicitation and the bid proposal will be incorporated into any contract awarded to the Bidder pursuant to this solicitation and the bid proposal. The person signing below represents, under penalty of perjury, that he or she is fully informed regarding the preparation and contents of this bid proposal and has been duly authorized to execute and submit this bid proposal on behalf of the Bidder.

## BIDDER

Date: 2/13/15

PK Associates Inc. d/b/a Briggs Engineering & Testing

Name of Bidder



Signature in ink

Todd F. Livolsi, Manager- Business Development

Printed name and title of person signing on behalf of Bidder



**Master Price Agreement  
Construction Testing Services**

11/17/2014

**PART 1 – Document 00410 – Bid Form**

**Date:** February 13th, 2015

**To:** The Department of Administration, Division of Purchases  
One Capitol Hill, Providence, RI 02908

**Submitted by:** PK Associates Inc. d/b/a Briggs Engineering & Testing  
**(include**  
**Address, tel.** 100 Weymouth Street, Rockland, MA 02370, Corp., HQ  
**& fax nos.** 100 Pound Rd, Cumberland, RI 02864  
Tel. MA : 781-871-6040, Fax MA: 781-871-4340  
Tel. RI: 401-658-2990, Fax RI: 401-658-2977

**1. BID**

Having examined the Place of the Work and all matters referred to in the Instructions to Bidders, and in the Contract Documents for the above mentioned project, we the undersigned hereby offer to enter into a Contract to perform the Work for the unit prices indicated.

**2. ACCEPTANCE**

This offer shall be open to acceptance and is irrevocable for **sixty days** from the bid closing date. If the Owner accepts this bid within the time period stated above, we will:

- Execute the Agreement subject to compliance with required State regulatory agency approvals as described in the Invitation to Bid.
- Commence work within seven days after receipt of a Purchase Order from the Rhode Island State Division of Purchases.

**3. CONTRACT TIME**

If this Bid is accepted, we will meet the required inspection times of the agency requesting our service.

The duration of the Master Price Agreement shall be (2) two years with an option to extend the MPA for an additional (1) year.

**4. BID FORM SIGNATURE(S)**

Todd F. Livolsi  
**(Bidder's Name)**

**By:** PK Associates Inc. d/b/a Briggs Engineering & Testing

**Title:** Manager - Business Development

**Master Price Agreement  
Construction Testing Services**

11/17/2014

*Corporate Seal:*

**PART 2**

**Scope of Work: Construction Testing Services 11/14/2014**

THIS SCOPE OF WORK DESCRIBES THE WORK ITEMS, WHICH ARE A PART OF THE PURCHASE AGREEMENT AND THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE SERVICES OF THIS PURCHASE AGREEMENT.

**Description of Work Included**

The State of Rhode Island is seeking the services of materials testing laboratory and special inspection firms (the Firm) to assist the State with various aspects and disciplines on construction projects. The Firm shall be qualified and possess the appropriate certifications and licenses to perform the work as described. The Firm shall be able to review, inspect, test and document existing conditions, review architectural and engineering documents, construction materials and assemblies in accordance with applicable standards, codes and regulations.

Perform materials testing as directed by the User Agency, as required by the construction documents and referenced standards. Test shall include but not be limited to: soils, concrete, reinforcing, masonry, structural steel, fireproofing and roofing. Perform tests or inspections as directed by the User Agency on the State's existing property or structures.

Perform special inspections as directed by the User Agency for the compliance with R.I.G.L. 23-27.3 Section 128.0 of the Rhode Island Building Code.

Bidders shall submit a Statement of Qualifications (SOQ) and should demonstrate the experience and specialized knowledge required the services described within this bid. The SOQ should include a cover letter with the information about the firm and Standard Form 330 which describes the specific experiences of the Firm related to this scope.

**General Scope Items**

1. Travel time and travel expenses are included in the hourly rates quoted below.
2. Professional Liability insurance coverage will be provided at no extra cost in the amount of \$2,000,000, and shall be maintained throughout the term of this agreement
3. Daily Rates are based on 8 hour or 4 hour commitments
4. Overtime will be charged for hours worked beyond the 8 eight hour workday of for hours worked outside the normal business of 7:00am to 3:00pm Monday thru Friday. Work on Saturdays, Sundays and Holidays will be at a rate of 1.5 the quoted rate.
5. Project specific work will be scheduled and coordinated by the overseeing contractor.
6. Initial test results are to be review and shared with the contractor to indicate acceptance of work/material be installed.
7. Reports shall be provided to the User Agency in electronic format (PDF) within 48 hours of the testing performed. Formal reports, if required by the User Agency, are required within in two weeks after the final testing.

**Master Price Agreement  
Construction Testing Services**

11/17/2014

8. Normal turn around time for Laboratory results is to be five (5) working days.
9. Fabrication plant inspections if required will be billed portal to portal at the current IRS rate. Per Diem or extraordinary travel expenses (if applicable) will be charged at cost.
10. The State of Rhode Island General Terms of Purchase are incorporated into and made a part of this Agreement.

**Specific Scope Items****Soils****Experienced Quality Control Technician**

To perform field compaction testing in accordance with ASTM D-2922 utilizing an Electronic Nuclear Moisture Density Gauge, observe the compaction procedures followed, and daily report this and all additional information to all concerned.

\$40.00 Hourly Rate  
Forty Dollars

**Proctor Test – ASTM D-1557**

\$95.00 Each  
Ninety-Five Dollars

**Washed Sieve Analysis to #200 sieve screen**

\$65.00 Each  
Sixty-Five Dollars

**Sieve Including Hydrometer analysis**

\$125.00 Each  
One Hundred and Twenty-Five Dollars

**Loam analysis**

Includes organic content, PH, soil texture (sand, silt & clay proportions) and nutrient content (nitrogen, phosphorus, potassium, calcium, magnesium, and aluminum). Report includes recommendations for additives to bring nutrient content and pH to satisfactory levels for seeding.

\$190.00 Each  
One Hundred and Ninety Dollars

**Field Geotechnical Engineer**

for seismic monitoring during blasting procedures or pile driving, observation of dewatering procedures, inspection and approval of soil strata and determination on limits of excavation.

\$80.00 Hourly Rate  
Eighty Dollars

**Registered Professional Geotechnical Engineer**

\$150.00 Hourly Rate  
One Hundred and Fifty Dollars

**Selsmograph rental (each unit)**

\$35.00 Daily Rate  
Thirty-Five Dollars

**CONCRETE****Reinforcing Steel Technician**

who will inspect the correctness of the three dimensional spacing of the bars and forms, (i.e., length of bars, width of forms, spacing from the forms, from other bars and tops and bottoms of forms), in addition to inspecting the size and grade of steel, length of splices, tying sequence, dowel and/or key requirements, bending radius of bars and placement of

\$50.00 Hourly Rate  
Fifty Dollars



**Master Price Agreement  
Construction Testing Services**

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stops. The Inspector will also make sure that all dimensions, measurements and requirements for the reinforcing steel and forms conform in all respects to the approved shop drawings and contract documents.

ACI- ~~MCIB~~ **Certified Class A Concrete Field Technician** \$40.00 Hourly Rate  
Forty Dollars  
Once the concrete arrives, the Inspector will test the mix for slump and air content, fabricated concrete cylinders, record concrete mix duration, temperature, workability, appearance, placement procedures, yards poured and daily report this and all necessary additional information to all concerned.

**Concrete Test Cylinders** – Compressive Strength \$15.00 Each  
Test, and/or curing and storage – Fabricated by (all sizes). Fifteen Dollars

Concrete Floor Inspection – Determine floor flatness \$650.00 Day\*  
and levelness in accordance with (ACI 117)\* Six Hundred and Fifty Dollars per 25,000SF Slab.

**STRUCTURAL STEEL / NONDESTRUCTIVE TESTING**

Visual Examination of all structural steel components, \$40.00 Hourly Rate  
connections and weldments, torque testing of all Forty Dollars  
bolted connections, witnessing of impact wrench calibrations by a Skidmore Wilhelm Torque Tension Gauge, inspection of steel joist, metal stud, shear studs and light gauge metal framing.

**AWS Certified Welding Inspector / Fab. Plant Inspector** \$60.00 Hrly Rate  
Sixty Dollars

**Skidmore Wilhelm Torque Tension Verification** N/C Hourly Rate

Quality Assurance Nondestructive Examination of \$55.00 Hourly Rate  
all structural steel components, connections and Fifty-Five Dollars  
weldments by Level II Technician, accompanied by detailed certification of acceptability of all fabrication and erection procedures as per the contract documents, to include:

- a. Ultrasonic evaluation of full penetration welds
- b. Magnetic Particle of Dye Penetrant evaluation of fillet welds.

**FIREPROOFING**

Evaluation of Sprayed-on Fireproofing for proper \$45.00 Hourly rate  
coverage, thickness and density (ASTM E-605) Forty-Five Dollars  
and adhesion (ASTM E-736)  
a. Adhesion Test (field supplies) \$15.00 Each  
b. Density Test (laboratory) \$15.00 Each

a.&b. are Fifteen Dollars

**MASONRY**

**Senior masonry Consultant / Inspector** \$55.00 Hourly Rate  
Fifty-Five Dollars  
**Field Masonry Technician who will check work** \$40.00 Hourly Rate  
Forty Dollars

BID FORM  
00410-4

**Master Price Agreement  
Construction Testing Services**

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activities for quantity, quality of workmanship and accuracy of placement for compliance to contract documents monitor grout and/or mortar proportions, mixing procedure and prevailing temperature, fabricate mortar cubes and/or grout cylinders, inspect all horizontal and vertical reinforcing steel, installation of control/expansion joints, brick to stud anchors, brick washdown procedures, condition of cavity wall and weep holes and construction of any specialized masonry flashing system and daily report this and all necessary information to all concerned.

**Laboratory Services**

- a. Test Brick (ASTM C-67)  
Evaluation of a set of units for compliance with ASTM C-216 including: measurement, absorption, efflorescence & compressive strength  
Total for testing a set of 15 brick \$250.00 **Set**  
Two Hundred and Fifty Dollars
- b. Test Concrete Masonry Unit (ASTM C-140)  
Evaluation of units to insure compliance with ASTM C-90 including: measurement, absorption, & compressive strength  
\$150.00 **Set**  
One Hundred and Fifty Dollars
- c. Linear Drying Shrinkage determination of CMU \$45.00 **Set**  
Forty - Five Dollars
- d. Grout Prisms or Cylinders (ASTM C-109)  
Field fabricated by a Certified Technician  
\$15.00 **Each**  
Fifteen Dollars
- e. CMU Prisms (ASTM E-447 Method B)  
Field Fabricated by Mason  
\$45.00 **Each**  
Forty-Five Dollars
- f. Mortar Aggregate Tests  
Sieve Analysis (ASTM C-136, C-117) \$75.00 **Each** Seventy-Five Dollars  
Soundness Tests (ASTM C-88) \$300.00 **Each** Three Hundred Dollars
- g. Mortar Efflorescence Test \$75.00 **Each**  
Seventy-Five Dollars
- h. Testing to verify compliance with mortar property specification  
Mortar Cubes (ASTM C-109) \$15.00 **Each**  
Fifteen Dollars  
Mortar Cylinders for splitting tensile test \$15.00 **Each**  
Fifteen Dollars
- i. Testing to verify compliance with mortar proportion specification  
Mortar Aggregate Ratio & Water Content \$150.00 **Each** \*

\* Assumes (ASTM-C270). One Hundred and Fifty Dollars

**Master Price Agreement  
Construction Testing Services**

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**BITUMINOUS CONCRETE**

NETTCP Certified Bituminous Plant Technician \$55.00 Hourly Rate  
 who will inspect the batching procedure, check the Fifty-Five Dollars  
 mix temperature, perform sieve analysis, prepare  
 Marshal specimens for use in determining field  
 density of In place asphalt, ascertain that the batched  
 material fully meets the specification requirements and  
 daily report this and all additional information to all concerned.

Bituminous Field Technician who will make certain \$45.00 Hourly Rate  
 that the preliminary paving surface is properly prepared Forty-Five Dollars  
 for paving, check the delivery temperature of the mix,  
 inspect the paving and rolling operation, check the  
 pavement thickness, determine in place density in  
 accordance with ASTM E-2950 utilizing a nuclear  
 density gauge, and daily report this and all necessary  
 information to all concerned.

Thickness evaluation and/or extraction of Pavement  
 Mixture Field Specimens for lab analysis in accordance  
 with ASTM D-3549

Coring Technician & Equipment (1 man crew)	<u>\$85.00</u>	Hourly Rate	Eighty-Five Dollars
Bit Wear (4 inch dia.)	<u>\$10.00</u>	Each	Ten Dollars
Core Hole Patching	<u>\$15.00</u>	Each	Fifteen Dollars

**Laboratory Services**

- |  |                 |      |                                  |
|--|-----------------|------|----------------------------------|
| a. Preparation of Marshall Specimens (ASTM D-1559)               | <u>\$100.00</u> | Set  |                                  |
| b. Mixture Resistance to Plastic Flow (ASTM D-1559)              | <u>\$45.00</u>  | Set  |                                  |
| c. Bulk Specific Gravity of Mixtures (ASTM D-2726)               | <u>\$55.00</u>  | Each | Fifty-Five Dollars               |
| d. Mixture Compressive Strength (ASTM D-1074)                    | <u>\$45.00</u>  | Each | Forty-Five Dollars               |
| e. Theoretical Maximum Specific Gravity (ASTM D-2041)            | <u>\$75.00</u>  | Each | Seventy-Five Dollars             |
| f. Extraction of Bitumen from Mixtures & Gradation (ASTM D-2172) | <u>\$265.00</u> | Each | Two-Hundred & Sixty-Five Dollars |
| g. Percent Air Voids in Mixtures (ASTM D-3203)                   | <u>*</u>        | Each |                                  |

\* Included as part of line item a. (Marshall Prep.)

**ROOFING**

- |  |                           |             |
|--|---------------------------|-------------|
| 1. Experienced Roofing Technician  | <u>\$55.00</u>            | Hourly Rate |
| Who will check all roofing materials and procedures for strict conformance to project specifications. The technician will prepare a daily report recording weather conditions and all work performed that day. Areas roofed on a given day will be shown on an attached roof plan. |                           |             |
|  | <u>Fifty-Five Dollars</u> |             |

- |  |                            |             |
|--|----------------------------|-------------|
| 2. Senior Roofing/Moisture Protection Engineer | <u>\$85.00</u>             | Hourly Rate |
|  | <u>Eighty-Five Dollars</u> |             |

**MISCELLANEOUS**

**Master Price Agreement  
Construction Testing Services**

11/17/2014

Principal or Registered P.E.

\$150.00 Hourly rate One Hundred and Fifty  
Dollars

QA/QC Construction Consultant

\$65.00 Hourly Rate

Sample Transportation from site to laboratory  
Dedicated Trip

Sixty-Five Dollars

\$45.00 Trip

Forty-Five Dollars

**PART 3 – End of Document 00410**





STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex  
1511 Pontiac Avenue  
Cranston, RI 02920-4407

Telephone: (401) 462-8000  
TTY: Via RI Relay 711

Lincoln D. Chafee  
Governor

Charles J. Fogarty  
Director

13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at [www.dlt.ri.gov/pw](http://www.dlt.ri.gov/pw).

**CERTIFICATION**

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

By: Todd Livolsi

Title: Manager-Business Development

Subscribed and sworn before me this 13 day of February, 2015

  
Notary Public

My commission expires: May 20, 2015

*An Equal Opportunity Employer/Program, /Auxiliary aids and services are available upon request to individuals with disabilities.*

*TTY via RI Relay 711*

State of Rhode Island  
**PAYER'S REQUEST FOR TAXPAYER  
 IDENTIFICATION NUMBER AND CERTIFICATION**

THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$50 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

**Taxpayer Identification Number (T.I.N.)**

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

Employer ID No. (EIN)

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04	3333207
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NAME PK Associates, Inc. d/b/a Briggs Engineering and TestingADDRESS 100 Weymouth Street, Unit C-2(REMITTANCE ADDRESS, IF DIFFERENT) P.O. Box 369CITY, STATE AND ZIP CODE Rockland, MA 02370

CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because either: (A) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (B) the IRS has notified me that I am no longer subject to backup withholding.

**Certification Instructions** -- You must cross out item (2) above if you have been notified by the IRS that you are subject to backup withholding because of under-reporting interest or dividends on your tax return. However, if after being notified by IRS that you were subject to backup withholding you received another notification from IRS that you are no longer subject to backup withholding, do not cross out item (2).

**PLEASE SIGN HERE**

SIGNATURE

TITLE Mgr. Bus. Dev.DATE 2/13/15TEL NO. 781-871-6040**BUSINESS DESIGNATION:**

Please Check One: Individual ☐ Medical Services Corporation ☐ Government/Nonprofit Corporation ☐  
 Partnership ☐ Corporation ☒ Trust/Estate ☐ Legal Services Corporation ☐

NAME: Be sure to enter your full and correct name as listed in the IRS file for you or your business.

ADDRESS, CITY, STATE AND ZIP CODE: Enter your primary business address and remittance address if different from your primary address). If you operate a business at more than one location, adhere to the following:

- 1) Same T.I.N. with more than one location -- attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different T.I.N. for each different location -- submit a completed W-9 form for each T.I.N. and location. (One year-end tax information return will be reported for each T.I.N. and remittance address.)

CERTIFICATION -- Sign the certification, enter your title, date, and your telephone number (including area code and extension).

BUSINESS TYPE CHECK-OFF -- Check the appropriate box for the type of business ownership.

Mail to: Supplier Coordinator, One Capitol Hill, Providence, RI 02908

# Briggs Engineering & Testing

## 50 Years of Engineering Excellence and Counting

Robert Briggs founded Briggs Engineering & Testing (BET) in the late 1950s. BET's initial focus was on asphalt and concrete applications, and the team established a niche in airport and roadway engineering. Within a few years, BET expanded its services to include quality-control inspection and materials testing of additional construction materials and application. The team originally operated out of a single location in Hingham, Mass.; however, the company quickly outgrew that location and moved to Rockland, Mass., to accommodate its growth.

Paul Skorohod, president of BET, has been with the business since 1970. "This was my first job and it's been my only employer," he notes. "I started fresh out of college. I answered an advertisement in the newspaper and was hired. Today, with Ken Oliver [executive vice president and co-owner of BET] the company employs 113 engineers, technicians and inspectors in two offices. Our headquarters is in Rockland, Mass., and with another location in Cumberland, R.I., we serve clients in both of those states."

Today the company continues to diversify and offers a wide range of engineering and consulting services across New England. BET's client base includes municipalities, school systems, health care and real estate developers and homebuilders among others.

### A Trusted Name in Engineering

With half a century of experience, the BET name has adopted a reputation for quality in service. And, according to Skorohod, his team has a simple straightforward focus. "Our goal is to ensure an owner that their structure is built according to project plans and specifications," he explains. At any phase of construction, BET can step in to provide consulting for a number of building processes.

For new construction projects, BET offers a number of construction monitoring and quality-control management services; included is testing and inspection for a number of



materials, such as soil/earthwork, concrete, masonry, structural steel and fireproofing, among others.

In regards to preconstruction, the company can help builders analyze and prepare land for construction. With geotechnical and





environmental services, BET offers a selection of monitoring, testing and analysis services to prevent settling or damage from seismic events. True to the company's history, BET continues to offer leading road quality management services for new and existing concrete and asphalt surfaces.

For existing buildings, BET helps owners with building maintenance and repair concerns by testing, monitoring and inspecting services for structural systems and building envelope components. For older buildings in need of an upgrade, the team performs visual building condition and restoration surveys followed by testing, remedial design, contract administration and construction phase quality assurance services.

### Staying Ahead

Despite recent economic setbacks in much of the country, BET continues to secure a range of unique projects. "We have performed three projects for the University of Massachusetts in the last few years," Skorohod says. "We're currently providing services at Boston's Pier 4 and the East Pier One developments, and we also have major contracts with the DPW's of Boston & Providence, R.I. We've recently worked on several exciting, high-profile projects, which include Gillette Stadium, as well as the MGM expansion at Foxwoods, which took more than two



years. The Boston Convention Center was another large and very complicated project."

Skorohod is proud to note that the company has between 60 and 70 ongoing projects at one time. "We are busy now," he says. "We have a few upcoming projects that should be very interesting, as well. We'll be involved with the Longfellow Bridge in Boston, the Fore River Bridge in Quincy, Mass., as well as the Providence, R.I., Viaduct project."

The changing economy has had some effects on the business, although surprisingly not on the demand end. "We have a hard time finding qualified personnel," Skorohod explains. "We have to hire people and train them in-house. We hold classes and provide a lot of training in our lab. Payroll is our largest expense and we need to have quality employees with the right background for this kind of work."

The company has not cut any corners, either. "Our business is certified by the state for our materials laboratory and we are always updating to state-of-the-art equipment," details Skorohod. "We are also certified by AASHTO [American Association of State Highway & Transportation] and the U.S. Army Corps of Engineers, among others. These certifications allow us to get involved with a diverse range of projects requiring the services that we offer."

Skorohod and his team at BET have seen improvements in both the economy and the industry in recent months, although he notes he can only speak for his region. According to Skorohod, the recovery is coming around slowly and BET is maintaining steady growth. "Over the next few years we intend to focus on increasing our sales and expanding our work vertically with new services," he elaborates. With a continued dedication to fulfilling ever-changing customer needs, Briggs Engineering & Testing will continue to offer peace of mind to builders and building owners alike for many years to come.

For more information about Briggs Engineering & Testing, please visit: [www.briggsengineering.com](http://www.briggsengineering.com).

*Congratulations Briggs Engineering!*  
Best wishes for your continued success!

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# Briggs Engineering & Testing

*A Division of PK Associates, Inc.*

## Welcome to Briggs Engineering & Testing's Website!

Our web site is intended to provide you with a brief overview of our company's history, qualifications, capabilities and a partial list of recent projects with which we've been involved.

The name Briggs has been around for over 40 years. Briggs Engineering & Testing was originally started in Hingham, MA in the late 1950's by Mr. Robert Briggs, P.E. to provide design consulting and testing services of asphalt and concrete products and their applications. At that time, Mr. Briggs' primary focus was airports and roadways. Soon after its inception the company expanded its scope to include quality control inspection and materials testing of most building construction materials and their installation procedures.

As time went by, the company continued to grow and diversify. Over its history, Briggs has provided a host of engineering and consulting services to tens of thousands of satisfied clients including numerous Municipalities, Public and Private School Systems, Major Health organizations, Condominium Communities, Federal and State Government Agencies, and a diverse private sector and industrial clientele.

The company has always had a simple but important corporate philosophy:

*Briggs will strive to be recognized as the region's premier provider of our services through superior customer service. We must become a company that won't rest until every customer is not just satisfied, but delighted with every association they have with us.*

We are absolutely convinced that this dedication and attitude towards our clients will insure our continued success.

We currently employ over 100 very professional people in 2 offices, Rockland, MA and Cumberland, RI. Briggs' staff of professionals consist of a multidisciplinary array of Registered Professional Engineers, Field Inspectors, Lab Technicians, Field Engineers and other technical personnel organized into five divisions:

1. New Building Construction Services
2. Existing Building / Condo Services / Building Envelope Services
3. Geotechnical / Environmental Services
4. Nondestructive / Mechanical Services
5. Road Quality Management Services



**Gillette Stadium / Foxboro, MA**



Robert Creighton Briggs  
Founder & First President of  
Briggs Engineering and Testing





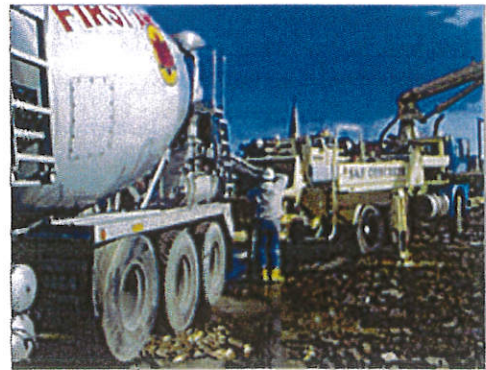
# Briggs Engineering & Testing

*A Division of PK Associates, Inc.*

## Services

### New Construction Services

- Construction Monitoring & QC Mgmt.
- Soil & Aggregate Inspection & Physical Testing
- Concrete Inspection & Testing (plant & field)
- Shotcrete Inspection & Testing
- Reinforcing Steel Inspection
- Wood Framing Inspection & Testing
- Masonry Inspection & Testing
- Structural Steel Insp. & Testing (plant & field)
- Spray-On Fireproofing Inspection & Testing
- Precast Concrete Inspection (plant & field)
- Post Tensioning Inspection
- Complete Loam Analysis
- Construction Photo & Video Documentation
- Floor Flatness Testing (FF & FL Testing)



### Existing Building Services

- Building Condition / Restoration Surveys
- Air & Water Infiltration Investigations
- Roof Inspection & Failure Analysis
- Re-Roof Design & Contract Admin.
- Window / Curtain Wall Inspection & Testing
- Vapor Emission and Relative Humidity Testing of Concrete
- Capital Reserve Budget Studies
- Structural Load Testing / Strain Measurement
- Concrete & Masonry Restoration Design
- Pre & Post Construction Surveys



### Geotechnical / Environmental Services

- Complete Geotechnical Investigations
- Test Boring & Test Pit Monitoring
- Pile & Caisson Installation Monitoring
- Seismograph Monitoring of Vibrations & Noise
- Material Quantification & Compaction Verification
- Bearing Capacity and Slope Stability Analysis
- Lateral Earth Support and Settlement Analysis
- Preparation of Dewatering Procedures
- Environmental Site Screenings & Sampling
- Phase 1 & 2 Environmental Site Assessments
- Characterization of Contamination
- Preparation of Remediation Plans
- Registered Land Surveyors



### Nondestructive / Mechanical Services

- Industrial Radiography (X-ray & Gamma)
- Ultrasonic & Eddy Current Evaluations
- Magnetic Particle & Dye Penetrant
- Welding Qualifications & Certifications
- Fiberoptic Borescope & Videoscope
- FAA Certified Repair Station
- Moisture Testing on Concrete & Wood
- Paint/Waterproofing Thickness & Bond Tests
- Tensile & Ductility Testing of Steel
- On-Site Pull-Out Strength Testing
- Subsurface Rebar Locating and Sizing
- Load/Compression Testing up to 1 Million lbs



### Road Quality Management Services

- Municipal Resident Inspector/Engineer
- Preparation of QC Plans
- Roadway & Bridge Failure Assessment
- Roadway Asset/Pavement Management
- Road Base & Sub-base Inspection & Testing
- Asphalt Batch Plant Inspection & Testing
- Asphalt Placement Inspection & Testing
- MHD QA/QC Project Management
- Bridge Condition Investigations
- Concrete Coring & Chloride Ion Analysis







